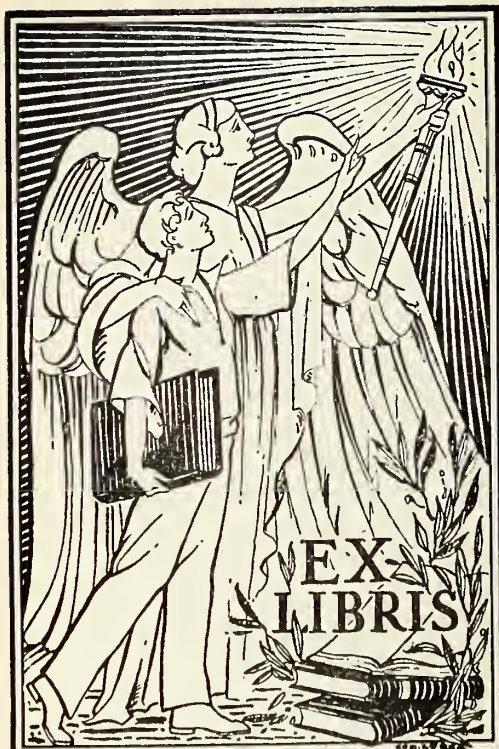


HOW WE IMPROVED OUR BRAILLE
SILENT READING

Beulah Hulberg

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FOR THE BLIND INC.

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How We Improved Our Braille Silent Reading.

by

Beulah Hulberg.

Teacher of the Longfellow Class for the Blind
Minneapolis, Minnesota.

The immediate stimulus inspiring the working out of this particular project was the writer's attendance upon a class in supervision at the University of Minnesota. In the succeeding paragraphs an attempt has been made to summarize the work which constitutes her contribution to the course.

The project in question was purely experimental in its nature and was given with a twofold purpose: first, to stimulate the pupils to greater mental activity and higher scholastic achievements; and, secondly, to show where each individual had difficulties so that assistance and guidance might be given more wisely.

Needless to say, difficulties immediately arose. The Braille class at Longfellow School consisted of fourteen children whose ages ranged from seven to eighteen, representing ten different grades. There was wide variation in previous training, and in mental capacity.

February first marked the launching of the drive and June fourth, the close. Every Wednesday, a three-minute test was given to each pupil. Rivalry became very keen as each child wanted to score higher than any other, or higher than others whose speed was about the same as his. They tried, also to beat their own records. This spirit of competition soon caused Wednesday to be hailed with delight, the day on which a week's practice in reading would tell its tale in improvement achieved.

Needless to say, we were somewhat limited in Braille material suitable for silent-reading tests, but the following will give an idea of the material used.

- Grade 1 A
 - Winston Primer--Firman and Maltby.
 - Winston Companion Reader--Firman and Maltby.
- Grade 2 B
 - Winston First Reader--Firman and Maltby.
 - Winston Second Reader--Firman and Maltby.
 - Little Black Sambo--Bannerman
 - Mother Stories--Lindsay
 - Beacon First Reader
 - The Story of Rosy Cheeks and Strong Heart
 - Jack the Giant Killer and Other Stories
- Grade 3 A
 - Mother Goose Village--Bigham
 - Black Beauty--Sewall
 - Fairy Stories and Fables--James Bald.

THE UNIVERSITY OF CHICAGO

1911

CHICAGO, ILL.

TO THE PRESIDENT OF THE UNIVERSITY OF CHICAGO
FROM THE FACULTY OF THE UNIVERSITY OF CHICAGO

THE FACULTY OF THE UNIVERSITY OF CHICAGO
HEREBY RESOLVES TO
RECOMMEND TO THE BOARD OF TRUSTEES
THE APPOINTMENT OF
DR. [Name] TO THE CHAIR OF
THE DEPARTMENT OF [Department]

AND TO REQUEST THE BOARD OF TRUSTEES
TO TAKE SUCH ACTION AS MAY BE DEEMED
ADVISABLE IN THE PREMISES.

RESOLVED, THAT THE FACULTY OF THE UNIVERSITY OF CHICAGO
DOES HEREBY RECOMMEND TO THE BOARD OF TRUSTEES
THE APPOINTMENT OF DR. [Name] TO THE CHAIR OF
THE DEPARTMENT OF [Department]

AND TO REQUEST THE BOARD OF TRUSTEES
TO TAKE SUCH ACTION AS MAY BE DEEMED
ADVISABLE IN THE PREMISES.

IN WITNESS WHEREOF, THE FACULTY OF THE UNIVERSITY OF CHICAGO
HAS HEREUNTO SET ITS HANDS AND AFFIXED ITS SEAL
THIS [Date] DAY OF [Month], 1911.

ATTEST:

THE PRESIDENT OF THE UNIVERSITY OF CHICAGO

THE VICE-PRESIDENT OF THE UNIVERSITY OF CHICAGO

1911

THE SECRETARY OF THE UNIVERSITY OF CHICAGO

THE DEAN OF THE UNIVERSITY OF CHICAGO

THE CHAIRMAN OF THE FACULTY OF THE UNIVERSITY OF CHICAGO

THE CHAIRMAN OF THE FACULTY OF THE UNIVERSITY OF CHICAGO

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THE CHAIRMAN OF THE FACULTY OF THE UNIVERSITY OF CHICAGO

ATTEST:

THE PRESIDENT OF THE UNIVERSITY OF CHICAGO

THE VICE-PRESIDENT OF THE UNIVERSITY OF CHICAGO

THE SECRETARY OF THE UNIVERSITY OF CHICAGO

- Grade 4A
Around the World With the Children--Carpenter
Fifty Famous Stories Retold--Baldwin
Thirty More Famous Stories--Baldwin
The Seven Little Sisters--Andrews
- Grade 5B
The Riverside Third Reader--Van Sickle and Seegmiller
- Grade 5A
Stories of Colonial Children--Pratt
- Grade 6B
Great Americans--Eggleston
The Burgess Bird Book
The Story of the Greeks--Guerber
Boys of Other Countries--Taylor
World Geography--Tarr and McMurray
- Grade 7A
The Elson Grammar School Reader, Book III--Elson and Kech
Tales from Shakespeare--Lamb
The Man Without a Country--Halle
- Grade 8A
Stories for Girls

The reader will probably note that some of these books do not appear to be the proper ones for the grades where they were used, such as the Riverside Third Reader used in the 5B grade, but it was necessary to select material for each child on the basis of his individual ability. Some of the material was transcribed from print books into Braille. All that was read during these tests was entirely new to the children.

In giving these tests, the procedure was as follows. Each child was told that he would be allowed exactly three minutes in which to read, at the end of which time, he would be asked to answer questions on the material read. At the close of the period, the child was carefully tested, the number of words read was counted, and this number divided by three to get the average number of words per minute. This three-minute period was decided upon because a shorter time seemed undesirable in gaining an average speed, since blind children read more slowly than those with sight, and a longer period seemed unnecessary. At times, when a high rate of reading was obtained, accompanied by poor comprehension, the following week's test would show a lower reading rate but greater comprehension. This was due to the fact that a child who read rapidly but carelessly was impressed with the fact that speed was of no value unless the material read was understood. The child would concentrate on the thought of his material, rather than on a high rate of speed. This point is very well discussed and explained in "Silent Reading", by Germane and Germane. On page 31, the following quotation may be found. "Although rapid reading, even 'skimming', is of great importance, yet one would hesitate to increase the speed of reading if training in thought-getting would be sacrificed in doing so." Another quotation on page 32 is very applicable here. "It is entirely

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possible, however, to train the pupils of every grade to a high degree of efficiency in speed, and at the same time to increase their ability to get the main points or thoughts in the lesson.

An experiment of this type is bound to have some weaknesses and also to meet with some difficulties. Perhaps, at some future date, there will be a greater wealth of Braille silent reading material. It will only be, however, when enough pressure is brought to bear upon this point and when silent readers are adapted to the use of blind children. This lack of a supply of proper material was a handicap, for some children had read all, or nearly all of the books suited to their grades. Others, due to lack of health or previous training, were not able to read as difficult selections as children of those grades should.

The accompanying chart gives a complete record of the scores in rate of reading made by each child during all the tests given throughout the semester, also the dates of the tests. Letters are used instead of names.

Scores Made in Silent Reading Tests
Longfellow Class for the Blind
Feb. 1, 1924----June 4, 1924

Pupil and Grade	A-8A	B-7A	C-7A	D-6B	E-6B	F-5A	G-5B	H-4A	I-4A	J-3A	K-2B	L-1A	M-Ungraded
Feb.													
1.	62	75	50	84	52	94	33	55	117	66	26	8	
6	54	98	51	128	74	49	31	ab.	130	61	ab.	13	
13	61	54	48	184	58	49	ab.	106	140	83	36	ab.	
20	67	73	41	210	78	70	ab.	110	173	123	28	23	
27	61	88	43	212	89	ab.	23	62	179	131	51	51	
Mar.													
5	56	85	57	214	137	77	43	122	181	100	45	45	
12	78	88	56	213	113	110	33	110	180	75	50	50	
19	92	73	49	215	152	128	ab.	124	183	78	53	43	
26	89	93	56	215	114	95	ab.	78	136	62	61	19	
Apr.													
2	85	101	50	215	140	ab.	ab.	ab.	110	89	57	10	
9	102	87	70	215	153	83	27	150	134	50	58	ab.	
23	81	105	62	218	191	47	ab.	103	139	92	ab.	ab.	
30	72	101	62	159	163	ab.	23	211	200	85	ab.	ab.	
May													
7	66	86	67	190	198	63	30	100	170	81	78	ab.	8
14	67	93	63	182	201	76	ab.	ab.	170	104	84	14	12
21	65	ab.	67	193	202	85	24	ab.	146	84	82	25	14
28	68	ab.	60	179	202	96	24	ab.	154	95	99		20
June													
4	58	ab.	69	192	200	ab.	27	ab.	195	95	74		

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1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 26

A brief explanation of some of the reasons for increase, or decrease, in speed may be of value in interpreting the chart. Pupil "G", a 17 year old boy in 5B, had very poor health and had not even entered school until the age of 14. As will be noted, he was often absent. Child "J", after having been told that she did not do well in her comprehension test on March 5th, decreased in speed on March 12th from 100 to 75 words per minute. Pupil "F", a delicate 5A girl, often had severe headaches which greatly decreased the quality of her work. She also had very poor home conditions. This explains the drop in her rate from 94 to 49 words a minute on February 6th, also, from 128 to 95 words per minute on March 26th. Pupil "K" was a very bright eight year old boy in 2B. He had not entered school before September, 1923. On February 20th he dropped from 36 words a minute to 28 per minute because, for the first time, he was given a regular second-grade reader which was more difficult than the material he had read previously. At this time he also started learning his contractions, and, before the semester was over, he had learned them all and was reading third grade books, printed with contractions. His comprehension always scored very high, and he showed a keen appreciation of stories of all types. Often, he would be overheard telling other members of the class the stories he had read, calling their attention to the most interesting parts. Pupil "A", an 8A girl, was a very good, all-round student, always testing high on comprehension, although her speed was less than others in the class. A 7A girl, pupil "B", a rather deliberate but thorough student, also tested high on comprehension at all times. Her maximum speed, on February 13th, was 54 words a minute, and she reached a maximum of 105 words a minute on April 23rd. Pupil "C", an 18 year old boy from a residential school, had within a year changed his system of reading from New York Point to Braille. This accounts for the fact that his greatest speed, on April 9th, was only 70 words a minute. A 1A boy, child "L", six years old, had been in school only from September until February 1st, except for several months in the kindergarten. He had had almost no home training before entering school, and had a difficult task in learning to read, as well as in learning to do anything which involved the use of his fingers. He did, however, have a remarkable memory. Between February 27th and March 19th, his score ranged between 40 and 50 words a minute. For him, this seemed unbelievable, yet he could correctly answer the questions asked. Finally, it was found that he had, in kindergarten, heard these stories and remembered them perfectly even after so long a time. He was also clever enough to be able to scan the words with his fingers rapidly so as to know how much of the story he was covering, without really reading all the letters of every word, or even all the words. His great desire to see his graph line rise was the reason for his scanning the stories in this way. Then, when on March 26th, he was given an entirely new book, that is, one with stories entirely new to him, he dropped from 43 to 19 words a minute.

On February 1st, a rate of 84 words a minute was scored by child "D", a 6B boy, but by March 19th he had reached a score of 215 words a minute. On April 30th, this score dropped to 159 words a minute because he was given a geography book which was more difficult reading. This was

done because he had read so much of the material suitable for his grade that it was difficult to select stories which would be new to him and also be a fair test of his ability. He scored high on comprehension. Pupil "E", a girl in his own grade, soon became his rival in speed, when, on April 23rd, she read 191 words a minute, then on May 14th read 201 words per minute while he dropped to only 182. Pupil "I", a 4A boy reached the 200 mark on April 30th, and a 4A girl, child "H", gained a speed of 211 per minute. Interest was keen throughout the semester and improvement, in many cases, was far beyond expectations. The least gain made during the entire period was 10 words a minute and the greatest was 156. Four out of the thirteen gained over 125 words a minute during the semester. Besides gaining in speed and comprehension, each gained in many other ways, such as in securing greater interest in reading, in learning to concentrate better while reading and in consciously overcoming faulty reading habits.

A definite and detailed knowledge of the reading habits of each child was necessary in order to intelligently solve the problem of securing improvement. It is an obvious fact that this can only be gained when one has a definite goal to reach, overcoming certain obstacles. In the cases of these children it was necessary that each be informed, after having been tested, in regard to his individual errors, or difficulties, as well as commendable habits. Two charts were made, one to record very definitely the errors found in silent reading; the second to check oral reading. The list of errors selected for use in making these charts was a combination of a list given the members of the class in Supervision at the University of Minnesota, certain ones found in recognized books on silent reading, and those found by the teacher to be typical of blind children. After the various lists had been studied, the following one was decided upon for use in checking silent reading. The number of times each type of error was found present in this class of thirteen is also given.

1. Incorrect finger movement-----4
2. Incorrect return sweep-----0
3. Waste of time-----0
4. Lip or throat movement-----5 (a very little)
5. Body movements-----6 (feet, head, or body)

The pupils were tested in regard to the following oral reading errors, each type listed with its frequency of occurrence in the class.

1. Incorrect phrasing----- 3 pupils
2. Substitution of words-----1 pupil
3. Repetition of words-----5 pupils
4. Inability to analyze meaning-----2 pupils
5. Omission of words-----1 pupil
6. Words mispronounced-----5 pupils

After the diagnosis, constructive aids to secure improvement were necessary. One method used with the younger children, especially, was to copy the Horn-Shields flash-cards in Braille, each word on a

separate card, except in the case of the phrase cards where it was necessary to have an entire phrase on one card. The phrase cards were made 2 x 8 inches in size, while the word cards were 2 x 4 inches. Every card was shellacked so that the dots would not be so easily pressed down with usage. The method which proved to be the most simple and efficient in handling the cards was for the teacher to sit at the right of the pupil's desk, hold one card in a position on the desk where it can be most easily read by the child, leaving it there just long enough for the child to quickly pass his fingers over the words and the dash which showed where a word must be supplied by the pupil to complete the phrase correctly. Then take away the card, place it at the back of the pack of cards and, as soon as the child has given the correct answer, place another card in the same position on his desk. Gradually, as the pupil gains more power to think rapidly, the speed in handling the cards would be greatly increased. The single words, of course, can be given much faster than the phrases. An example of the phrase cards is, "The sun rises in the _____." The child reads the card silently, then says aloud the word, "east". Another card of this same group is, "Five is more than _____." The child reads this also silently, saying the answer as quickly as possible. Phrase cards are of value in developing in the blind child the sense of phrasing and also the ability to grasp the meaning of words instead of thinking merely of the letters which form the words. So many blind pupils are apt to read word by word instead of by phrases. In another group of these cards, the child pronounces, in place of the word read, the word of opposite meaning;--for example, when he silently reads the word "black", he says "white". These cards are of great value in many ways, especially in increasing the vocabulary and in training children to think logically, to concentrate, and to read with more expression orally because of intelligent silent reading. At every opportunity, these flash cards were eagerly asked for by the children, and a desire to beat their own records in speed and accuracy, ~~as well as those of others, was created.~~ The way in which the children were checked as to speed and accuracy in the use of these cards was for the teacher to keep track of the number of cards that were read and for which correct answers were given in the number of minutes allowed. Sometimes, as a reward for having accomplished a given task in less than the allotted time, or for merit in efficiency, a child was given a little more time to use these cards.

The chief stimulus in creating competition was the use of graphs which the children could feel. The lines were made with a sewing machine tracer, and the numbers were made with a Braille typewriter. Number 36 Dreadnaught Ledger paper was used, and each graph was $8\frac{1}{2}$ x 11 inches in size, this being the size of the paper which would fit into the children's notebooks. Each week, two graphs were placed on the board, one belonging to the pupil obtaining the highest speed for that particular week, and the other to the child securing the greatest percentage of improvement. The Braille figures and words, giving name, grade, age, and speed of the pupil, were interpreted in ink, so that anyone with sight,

would know at a glance which children were leaders that week. These graphs were also taken home when the pupils desired to do so, as was usually the case, and this gave the parents a chance to keep track of progress. There was also a class graph, on which every child's score was kept. Number 1, Diamond Round-Head paper-fasteners were used instead of dots, these fasteners being connected by means of string. Each child was given a number instead of having all the names on this graph. The graph for the class was also made of number 36 Dreadnaught Ledger paper, 24 x 36 inches, fastened at the top to a large sheet of heavy cardboard.

There is no question as to whether this reading campaign stimulated interest or not. It did, and to such an extent that many children who had seldom shown any interest in home reading, asked to take Braille books home to read during their spare time evenings and during weekends or vacations. Then, too, they discussed merits of certain books among themselves, recommending those of most interest, and describing characters or plots. This increased interest in voluntary reading was a very worthy achievement. To have secured so great a desire for reading, a reaching-out for knowledge, is, in itself, reason enough why such tests might profitably be continued, not only in this particular class, but in others where they might have been given. In classes where none have been tried, it might prove helpful, both to the teacher and to the pupils. Then, too there is a three-fold argument in its favor, and increase in speed, in comprehension and in time saved in preparing lessons because of being able to cover more material in a given time.

In summary, the writer would like to emphasize the fact that children must know wherein they fail to attain acceptable standards of Braille reading, then must be wisely guided in methods of overcoming their difficulties. Children, through faith and encouragement, will often surprise both themselves and the teacher by the great degree of improvement achieved. Braille reading, which supplants print reading with them, is a tool by means of which a world of knowledge is opened to them, an activity which, if properly directed, helps more than any other to mold their lives, and upon which many other activities are based. However, the children, as well as teachers need proper standards, attitudes and ideals to make reading more than mere words but a doorway to a richer, fuller life. A high degree of speed and comprehension on the part of Braille readers saves not only their own time, but also that of the teacher, which is double economy. Tests, graphs, proper reading material, all play their part in creating this desire to improve Braille reading. We have here made only a beginning, but we are dreaming dreams and painting visions of attaining greater skill than we ever gained before, and if only we can create a desire strong enough, perhaps we may be able to beat our own previous records.

Criticism, as well as suggestions, will be gladly accepted at any time and from any source. We do not claim to have made any records. We only know that we have improved the reading in our own class. All those who are interested in teaching blind children, if working together on certain activities scientifically, can help each other and thus help the blind to an even greater extent than ever before.

H

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Hulberg, Beulah

How we improved our braille silent reading.

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